

FACILITY PERMIT TO OPERATE FREE FLOW PACKAGING INTERNATIONAL, INC.

Facility Equipment and Requirements (Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
236175	D53160	BOILER (<5 MMBTU/HR) NAT GAS ONLY
276261	D72425	STORAGE TANK LPG
309306	F5025	AFTERBURNER HOT ROCK BED TYPE
328530	F16269	BOILER (<5 MMBTU/HR) NAT GAS ONLY
396914	F50885	POLYSTYRENE EXTRUDER
511762		AFTERBURNER HOT ROCK BED TYPE

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

- A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
- B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (a) OF THIS CONDITION.

[RULE 401]

2. THE TOTAL QUANTITY OF VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS FROM THIS FACILITY SHALL NOT EXCEED 624 POUNDS IN ANY ONE DAY AVERAGED OVER 30 DAYS.
[RULE 1303(b)(2)-OFFSET]
3. TO DEMONSTRATE COMPLIANCE WITH CONDITION NO. 2 ABOVE, THE OPERATOR SHALL CALCULATE VOC EMISSIONS FROM THIS FACILITY USING THE FOLLOWING EQUATION:

$$E_{TOTAL} = \sum E_i = \sum P_i EF_i$$

WHERE: E_{TOTAL} = TOTAL VOC EMISSIONS IN POUNDS PER DAY FROM THIS FACILITY, AVERAGED OVER 30 DAYS

E_i = VOC EMISSIONS IN POUNDS PER DAY FROM EACH PROCESS, AVERAGED OVER 30 DAYS

P_i = TOTAL AMOUNT OF RAW MATERIALS USED FOR EACH PROCESS, IN POUNDS PER DAY, 30-DAY ROLLING AVERAGE

EF_i = VOC EMISSION FACTOR FOR EACH PROCESS, IN POUNDS VOC EMISSIONS PER POUND RAW MATERIALS USED

FOR POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM, EF_i SHALL BE 0.02377 POUNDS VOC EMISSIONS PER POUND RAW MATERIALS USED.

BASED ON THE SOURCE TEST RESULTS, THE EMISSION FACTOR FOR EACH PROCESS MAY BE ADJUSTED AND THE FACILITY PERMIT HOLDER WILL BE NOTIFIED. UPON NOTIFICATION FROM THE DISTRICT, THE ADJUSTED EMISSION FACTOR SHALL BE USED FOR THE EMISSION CALCULATIONS.

[RULE 1303(b)(2)-OFFSET]

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4. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 2, ABOVE. THE RECORDS SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, RULE 3004(a)(4)-Periodic Monitoring]

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**Permit No. D53160
A/N 236175**

Equipment Description:

BOILER, CLEAVER BROOKS, WATERTUBE TYPE, MODEL NUMBER M4 HP-700-4500, 4.5 MM BTU/HR, WITH ONE CLEAVER BROOKS NATURAL GAS BURNER, A FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. NITROGEN OXIDES AND CARBON MONOXIDE CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 30 PPM AND 50 PPM, RESPECTIVELY, (DRY) CALCULATED AT 3 PERCENT OXYGEN.
[RULE 1303(a)(1)-BACT]
5. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL ARRANGE FOR A CERTIFIED BOILER TECHNICIAN TO PERFORM TWICE YEARLY BOILER TUNEUPS, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE IN COMPLIANCE WITH CONDITION NO. 4 ABOVE.
[RULE 1303(a)(1)-BACT]
6. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 5, FOR A PERIOD OF AT LEAST TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

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FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.
[RULE 3004(a)(4)]

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY:
(a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD.. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

9. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:

- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
- B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

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Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407
CO: 400 PPMV, RULE 1146.1
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 30 PPMV, RULE 1146.1

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**Permit No. D72425
A/N 276261**

Equipment Description:

STORAGE TANK, ISOBUTANE/N-PENTANE BLEND, 6'-10"DIA X 19'-3"H, 5,000-GALLON CAPACITY, PRESSURE VESSEL.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS STORAGE TANK SHALL NOT BE FILLED UNLESS DISPLACED VAPORS ARE RETURNED TO THE TANK TRUCK.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

4. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE CLEANING LOG THAT INCLUDES STATEMENT OF THE APPROVED CLEANING METHOD.
[RULE 3004(a)(4)]

Emissions And Requirements:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSIONS LIMITS

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**Permit No. F5025
A/N 309306**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. REGENERATIVE THERMAL OXIDIZER, SMITH ENGINEERING CO., 2,400,000 BTU/HR MAXIMUM RATING, NATURAL GAS FIRED, 9'-6"W X 29'-7"L X 12'-8"H, OVERALL DIMENSIONS WITH TWO HEAT EXCHANGER BEDS, EACH PACKED WITH 15,000 POUNDS OF CERAMIC SADDLES, AND A FLOW REVERSAL VALVE.
2. EXHAUST FAN WITH A 60-BHP BLOWER VENTING TWO EXTRUDERS, FIVE EXPANDERS, A DRYING ROOM, AND TWO INTERMEDIATE AND FINAL PRODUCT STORAGE AREAS OF THE POLYSTYRENE LOOSEFILL PROCESSES.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OXIDIZER SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. A STRIP-CHART RECORDER SHALL BE INSTALLED TO MEASURE AND RECORD THE TEMPERATURE IN THE COMBUSTION ZONE WHICH SHALL BE A MINIMUM OF 1450 DEGREES FAHRENHEIT. THESE RECORDS SHALL BE RETAINED FOR AT LEAST TWO YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL BE OPERATED WHENEVER THE PROCESSES IT SERVES ARE IN OPERATION FOR COMPLIANCE WITH RULE 1175.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

6. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE TEMPERATURE OF THE AFTERBURNER IS NOT LESS THAN 1450 DEG F. TO COMPLY WITH THIS CONDITION THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE READING DEVICE TO ACCURATELY INDICATE THE TEMPERATURE OF THE AFTERBURNER. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED.
[RULE 3004 (a)(4)]

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7. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
 - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
 - D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
- [RULE 3004 (a)(4)]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1175

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**Permit No. F16269
A/N 328530**

Equipment Description:

BOILER, PARKER BOILER CO., WATER TUBE, MODEL 115L, 4,830,000 BTU PER HOUR, WITH 12 PARKER BOILER CO. NATURAL GAS-FIRED, PREMIX METAL FIBER TYPE, LOW NOX BURNERS, AND A 2 H.P. ASSISTED AIR BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL EMIT NO MORE THAN 30 PPM OF OXIDES OF NITROGEN (NOX) AND NO MORE THAN 100 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂.
[RULE 1303(a)(1)-BACT]
5. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR COMMENCING FROM START-UP ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RATE.
[RULE 1303(a)(1)-BACT]
6. RECORDS OF SUCH ADJUSTMENT, TUNE-UP, AND CALIBRATION AS STATED IN CONDITION NUMBER 5 SHALL BE KEPT FOR AT LEAST 2 YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER

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NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146.1 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR , IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146.1 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

[RULE 3004 (a)(4)]

9. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:

- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
- B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

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Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407
CO: 400 PPMV, RULE 1146.1
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 30 PPMV, RULE 1146.1

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**Permit No. F50885
A/N 396914**

Equipment Description:

POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM CONSISTING OF:

- A. EXTRUSION AND LOOSE-FILL PARTICLES FORMING.
 - 1. TWO POLYSTYRENE PELLETS RECEIVING HOPPERS, 4'-0" W. X 4'-0" L. X 3'-6" H, EACH WITH A 1-HP FEED SCREW CONVEYOR.
 - 2. EXTRUDER, BERLYN, WITH A 200-LB CAPACITY FEED HOPPER, A 3.5 INCH SCREW WITH A 75-HP DRIVE AND A PREHEATED POLYSTYRENE/BLOWING AGENT MIXING CHAMBER, 2'-0" W. 12'-0" L. X 4'-6" H.
 - 3. EXTRUDER, BERLYN, WITH A 200-LB CAPACITY FEED HOPPER, A 3.5-INCH SCREW WITH A 75-HP DRIVE AND A PREHEATED POLYSTYRENE/BLOWING AGENT MIXING CHAMBER, 2'-0" W. X 12'-0" L. X 4'-6" H.
 - 4. TWO EIGHT-STRAND EXPANSION STRETCH CONVEYORS, EACH 33'-0" L., WITH A DISC CRIMPER, AND AN ANTI-STATIC LIQUID BATH, 2'-0" W. X 3'-0" L. X 0'-2" D.
 - 5. TWO STRAND CHOPPERS, FOR CUTTING THE STRANDS INTO LOOSE-FILL PARTICLES, EACH 5 HP.
- B. FIRST LOOSE-FILL PARTICLES EXPANSION, COOLING, AND CURING.
 - 1. TWO PNEUMATIC CONVEYORS, PUSHER TYPE, EACH WITH A 5-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES TO THE FIRST EXPANSION CHAMBER.
 - 2. TWO FIRST EXPANSION CHAMBERS, 2'-6" W. X 21'-0" L. X 5'-0" H., EACH WITH A FABRIC AND STEEL RECEIVING HOPPER, 3'-0" W. X 3'-0" L. X 8'-0" H., A STEAM INJECTION CHAMBER, 2'-3" W. X 18'-0" L. X 5'-0" H., WITH TWO CANOPY HOODS, A FRONT HOOD, 4'-3" W. X 2'-3" L. X 2'-0" H., A REAR HOOD, 4'-3" W. X 3'-10" L. X 2'-6" H., AND A SAMPLING PORT, 2'-0" W. X 1'-8" L.
 - 3. PNEUMATIC CONVEYOR, PUSHER TYPE, WITH A 5-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES TO THE MONORAIL COOLING AND CURING SURGE SECTION.
 - 4. INTERMEDIATE STORAGE ROOM, 40'-0" W. X 63'-0" L. X 25'-0" H., COMMON WITH AIR POLLUTION CONTROL SYSTEM, WITH TWELVE INTERMEDIATE HOPPERS, FABRIC AND METAL, 16'-0" W. X 8'-0" L. X 18'-0" H.
 - 5. PNEUMATIC CONVEYOR, PUSHER TYPE, WITH A 5-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES TO THE SECOND EXPANSION CHAMBER.

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C. SECOND LOOSE-FILL PARTICLES EXPANSION AND DRYING.

1. ONE SECOND EXPANSION CHAMBER, 2'-6"W X 21'-0"L X 5'-0"H, WITH A FABRIC AND STEEL RECEIVING HOPPER, 3'-0"W X 3'-0"L X 8'-0"H, A STEAM INJECTION CHAMBER, 2'-3"W X 18'-0"L X 5'-0"H, WITH TWO CANOPY HOODS, A FRONT HOOD, 4'-3"W X 2'-3"L X 2'-3"H X 2'-0"H, A REAR HOOD, 4'-3"W X 3'-10"L X 2'-6"H, AND A SAMPLING PORT, 2'-0"W X 1'-8"L.
2. PNEUMATIC CONVEYOR, PUSHER TYPE, WITH A 7.5-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES FROM THE SECOND EXPANSION CHAMBER TO THE MOISTURE BREAKBAG.
3. MOISTURE BREAK BAG, CLOTH FABRIC, 10'-0"W X 10'-0"L X 18'-0"H.
4. PNEUMATIC CONVEYOR, PUSHER TYPE, WITH A 5-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES FROM THE MOISTURE BREAK BAG TO THE DRYING ROOM.
5. DRYING ROOM, COMMON WITH AIR POLLUTION CONTROL SYSTEM, WITH SIX HOLDING BINS, CLOTH FABRIC AND METAL, EACH 11'-0"W X 12'-0"L X 22'-0"H, WITH TAPERED BOTTOMS CONNECTED TO A COMMON 10-HP PNEUMATIC CONVEYOR, DISCHARGE LINE TO THE CHIP BREAK BAG IN PRODUCT STORAGE ROOM.

D. STORAGE ROOM I, COMMON WITH AIR POLLUTION CONTROL SYSTEM.

1. CHIP BREAK BAG, CLOTH FABRIC, 4'-0"W X 4'-0"L X 16'-0"H, WITH TWO CLOTH DUST COLLECTION BAGS, 2'-0"DIA X 4'-0"H, EACH EMPTYING INTO AN OPEN TOP 50-GAL PLASTIC DRUM.
2. PNEUMATIC CONVEYOR, PUSHER TYPE, WITH A 10-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES FROM THE CHIP BREAK BAG TO THE STORAGE SILOS.
3. TEN STORAGE SILOS, FABRIC, 16'-0"W X 32'-0"L X 23'-0"H, EACH WITH TAPERED BOTTOMS, AND FOUR 0.2-HP BLOWERS FOR CONVEYING LOOSE-FILL PARTICLES TO THE DISCHARGE OF EACH SILO.
4. FOUR PNEUMATIC CONVEYORS, PUSHER TYPE, EACH WITH A 5-HP BLOWER FOR CONVEYING LOOSE-FILL PARTICLES FROM EACH OF THE TEN SILOS TO THE TRANSFER CHUTE BAGS.
5. TWO TRANSFER CHUTE BAGS, ONE 5'-0"W X 10"L X 23'-0"H AND 5'-0"W X 5'-0"L X 23'-0"H.

E. STORAGE ROOM II, COMMON WITH AIR POLLUTION CONTROL SYSTEM.

1. CHIP BREAK BAG, CLOTH FABRIC, 4'-0"W X 4'-0"L X 16'-0"H.
2. FIVE STORAGE SILOS, FABRIC, 10'-0"W X 24'-0"L X 23'-0"H, EACH WITH TAPERED BOTTOMS, AND FOUR 0.2-HP BLOWERS FOR CONVEYING LOOSE-FILL PARTICLES TO THE DISCHARGE OF EACH SILO.

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3. TRANSFER CHUTE BAG, 5'-0"W X 5'-0"L X 23'-0"H.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1175, RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 1175.
[RULE 1175]
5. THE OWNER OR OPERATOR SHALL CONDUCT A SOURCE TEST OF THIS EQUIPMENT ONCE EVERY FIVE (5) YEARS TO ENSURE COMPLIANCE WITH RULE 1175. THE SOURCE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE CONDITIONS SPECIFIED IN THE OPERATING PERMIT OF THE AIR POLLUTION CONTROL EQUIPMENT.
[RULE 1175]
6. THE OPERATOR SHALL KEEP THE POLYSTYRENE FOAM PRODUCTS IN THE STORAGE ROOMS I AND II FOR AT LEAST 48 HOURS.
[RULE 1175]
7. THE OPERATOR SHALL MAINTAIN A DAILY RECORD OF OPERATION OF THIS EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE AMOUNT OF RAW MATERIAL PROCESSED, THE EQUIPMENT USED, AND THE TYPE OF BLOWING AGENT USED. THE RECORDS SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1175]
8. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH CONDITION NO. 6, ABOVE. THE RECORDS SHALL BE MAINTAINED FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE RECORDS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING INFORMATION:
 - 1) THE DATE AND TIME WHEN POLYSTYRENE FOAM PRODUCTS ARE BEING TRANSPORTED INTO THE STORAGE BAGS IN THE STORAGE ROOMS I AND II.
 - 2) THE DATE AND TIME WHEN POLYSTYRENE FOAM PRODUCTS ARE BEING REMOVED FROM THE STORAGE BAGS IN THE STORAGE ROOMS I AND II.

[RULE 1175]

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Periodic Monitoring:

9. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL EITHER:
- A. VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST;
 - B. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
 - C. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

Emissions And Requirements:

10. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1175

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

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PERMIT TO CONSTRUCT

A/N 511762

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. REGENERATIVE THERMAL OXIDIZER, SMITH ENGINEERING CO., MODEL NO. E1972, 9'-6"W X 29'-7"L X 12'-8"H, WITH A BURNER, MAXON CORPORATION, MODEL NO. 3" SERIES G KINEMAX, 2,400,000 BTU/HR, NATURAL GAS FIRED, WITH A 10-HP COMBUSTION AIR BLOWER AND TWO HEAT EXCHANGER BEDS, EACH PACKED WITH 15,000 POUNDS OF CERAMIC SADDLES.
2. PERMANENT TOTAL ENCLOSURE, EXTRUSION ROOM, ENCLOSING TWO EXTRUDERS, TWO FIRST EXPANDERS, ONE SECOND EXPANDER AND ONE PROCESS SCRAP GRINDER.
3. PERMANENT TOTAL ENCLOSURE, INTERMEDIATE STORAGE ROOM, ENCLOSING 12 INTERMEDIATE HOPPERS, COMMON WITH POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM.
4. PERMANENT TOTAL ENCLOSURE, DRYING ROOM, ENCLOSING SIX HOLDING BINS, COMMON WITH POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM.
5. PERMANENT TOTAL ENCLOSURE, STORAGE ROOM I, ENCLOSING ONE CHIP BREAK BAG, TEN STORAGE SILOS AND TWO TRANSFER CHUTE BAGS, COMMON WITH POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM.
6. PERMANENT TOTAL ENCLOSURE, STORAGE ROOM II, ENCLOSING ONE CHIP BREAK BAG, FIVE STORAGE SILOS AND ONE TRANSFER CHUTE BAG, COMMON WITH POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM.
7. EXHAUST SYSTEM WITH ONE 60-HP MAIN BLOWER, ONE 15-HP AND ONE 5-HP BOOSTER BLOWERS VENTING THE POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES OR REGULATIONS:

NOX, RULE 1147

VOC CAPTURE EFFICIENCY AND VOC DESTRUCTION EFFICIENCY, RULE 1175

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[RULE 1147, RULE 1175, RULE 1303(A)(1)-BACT]

4. EFFECTIVE ON JULY 1, 2013, THE OXIDES OF NITROGEN (NOX) EMISSIONS DISCHARGED FROM THIS EQUIPMENT SHALL NOT EXCEED 60 PPMV, CALCULATED AS NO₂, BY VOLUME ON A DRY BASIS AT 3% O₂. FOR THE PURPOSE OF THIS CONDITION, THE EMISSION LIMIT SHALL APPLY SOLELY WHEN BURNING 100% FUEL AND NOT WHEN THE BURNER IS INCINERATING AIR TOXIC, VOCS, OR OTHER VAPORS.
[RULE 1147]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN IN SERVICE NON-RESETTABLE, TOTALIZING FUEL AND TIME METERS FOR THE FUEL BEING SUPPLIED TO THIS EQUIPMENT.
[RULE 1147]
6. THIS EQUIPMENT SHALL BE MAINTAINED AND OPERATED AT A MINIMUM VOC DESTRUCTION EFFICIENCY OF 95% WHEN THE BASIC EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1175, RULE 1303(A)(1)-BACT]
7. THE PERMANENT TOTAL ENCLOSURES SHALL BE MAINTAINED AND OPERATED IN COMPLIANCE WITH CRITERIA SPECIFIED IN EPA METHOD 204 – CRITERIA FOR AND VERIFICATION OF A PERMANENT OR TEMPORARY TOTAL ENCLOSURE, WHEN THE BASIC EQUIPMENT THEY SERVE ARE IN OPERATION.
[RULE 1175, RULE 1303(A)(1)-BACT]
8. A STRIP-CHART RECORDER SHALL BE INSTALLED TO MEASURE AND RECORD THE TEMPERATURE IN THE COMBUSTION ZONE WHICH SHALL BE A MINIMUM OF 1,450 DEGREES FAHRENHEIT. THESE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE (5) YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1175, RULE 1303(a)(1)-BACT]
9. THE OPERATOR SHALL MAINTAIN THE PERMANENT TOTAL ENCLOSURES UNDER A NEGATIVE PRESSURE OF AT LEAST 0.007 INCHES WATER COLUMN.
[RULE 1175; RULE 1303(b)(2)-Offset]
10. THE OPERATOR SHALL INSTALL AND MAINTAIN A DIFFERENTIAL PRESSURE MONITORING DEVICE FOR EACH PERMANENT TOTAL ENCLOSURE, WHICH MONITORS THE DIFFERENTIAL PRESSURE BETWEEN THE INSIDE AND OUTSIDE OF THE PERMANENT TOTAL ENCLOSURE.
[RULE 1175; RULE 1303(b)(2)-Offset]
11. THE OPERATOR SHALL RECORD THE DIFFERENTIAL PRESSURES BEING MONITORED DAILY. THESE RECORDS SHALL BE RETAINED FOR AT LEAST FIVE (5) YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1175; RULE 1303(b)(2)-Offset]

Periodic Monitoring:

12. THE OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS IN ACCORDANCE WITH THE FOLLOWING CONDITIONS:

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- A. A SOURCE TEST SHALL BE CONDUCTED ONCE EVERY FIVE YEARS. THE FIRST SOURCE TEST SHALL BE CONDUCTED WITHIN 180 DAYS AFTER THE CONSTRUCTION OF THE PERMANENT ENCLOSURES ARE COMPLETED, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
- B. THE SOURCE TEST SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH USEPA METHOD 204—CRITERIA FOR AND VERIFICATION OF A PERMANENT OR TEMPORARY TOTAL ENCLOSURE.
- C. THE SOURCE TEST SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE VOC DESTRUCTION EFFICIENCY SPECIFIED BY CONDITION NO. 6, ABOVE, USING THE TEST METHODS SPECIFIED IN RULE 1175.
- D. THE SOURCE TEST SHALL BE PERFORMED TO VERIFY THE VOC EMISSION FACTOR FOR POLYSTYRENE FOAM PACKAGING MATERIAL MANUFACTURING SYSTEM, WHICH IS SPECIFIED BY THE FACILITY-WIDE CONDITIONS, USING THE TEST METHODS SPECIFIED IN RULE 1175.
- E. THE SOURCE TEST SHALL BE CONDUCTED WHILE THE BASIC EQUIPMENT IS OPERATING WITH THE MAXIMUM AVAILABLE INITIAL BLOWING AGENT CONTENT.
- F. THE OPERATOR SHALL PROVIDE TO THE DISTRICT A SOURCE TEST REPORT CONTAINING, AT A MINIMUM, THE FOLLOWING INFORMATION:
 - 1) VOC EMISSIONS AT INLET AND OUTLET OF THE RTO SIMULTANEOUSLY, IN PPMV AND LBS/HR,
 - 2) VOC DESTRUCTION EFFICIENCY, IN PERCENT,
 - 3) FLOW RATE, IN ACTUAL AND STANDARD CUBIC FEET PER MINUTE (ACFM AND SCFM),
 - 4) RTO COMBUSTION CHAMBER TEMPERATURE, IN DEGREE FAHRENHEIT,
 - 5) TOTAL RAW MATERIAL PROCESS WEIGHT, IN POUNDS PER HOUR,
 - 6) LOOSE FILL PRODUCTION RATE, IN POUNDS PER HOUR,
 - 7) RAW MATERIAL BLOWING AGENT CONCENTRATION, IN PERCENT BY WEIGHT,
 - 8) PRODUCT BLOWING AGENT CONCENTRATION, IN PERCENT BY WEIGHT,
 - 9) FACIAL VELOCITIES AT ALL NATURAL DRAFT OPENINGS OF THIS EQUIPMENT, IN FEET PER MINUTE (FPM), AND
 - 10) DIFFERENTIAL PRESSURES OF ALL PERMANENT TOTAL ENCLOSURES, IN INCHES WATER COLUMN.
- G. NOTWITHSTANDING THE SOURCE TEST REQUIREMENTS OF SECTION E OF THIS FACILITY PERMIT, THE FACILITY PERMIT HOLDER SHALL SUBMIT THE PROTOCOL TO THE AQMD ENGINEER AT LEAST 365 DAYS PRIOR TO THE EXPIRATION DATE OF THIS TITLE V FACILITY PERMIT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT, AND NOTIFY THE DISTRICT OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST.
- H. THE TEST SHALL BE CONDUCTED AT LEAST 180 DAYS PRIOR TO THE EXPIRATION DATE OF THIS TITLE V FACILITY PERMIT UNLESS OTHERWISE APPROVED IN WRITING BY THE DISTRICT.

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- I. SOURCE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE EQUIPMENT CONFIGURATION AND OPERATION SPECIFIED IN THE TEST PROTOCOL APPROVED IN WRITING BY THE DISTRICT.
- J. THE SOURCE TEST SHALL BE CONDUCTED WHEN THIS EQUIPMENT IS OPERATING AT A TEMPERATURE OF NOT LESS THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT. IF THE OPERATING TEMPERATURE DURING THE SOURCE TEST IS GREATER THAN THE MINIMUM OPERATING TEMPERATURE SPECIFIED IN THIS PERMIT, THE MINIMUM OPERATING TEMPERATURE MAY BE INCREASED TO REFLECT THE OPERATING TEMPERATURE DURING THE SOURCE TEST.
- K. NOTWITHSTANDING THE REQUIREMENTS OF SECTION E CONDITIONS, THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO THE DISTRICT NO LATER THAN 60 DAYS AFTER THE SOURCE TEST WAS CONDUCTED.
- L. THE SOURCE TEST SHALL BE CONDUCTED ACCORDING TO A DISTRICT APPROVED PROTOCOL.

[RULE 1175, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)-Periodic Monitoring]

Emissions And Requirements:

- 13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: RULE 1147
VOC: RULE 1175

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF:

- A. COATING TYPE,
- B. VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS,
- C. VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF:

- A. COATING TYPE,
- B. VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS,
- C. VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS